Preliminary Classification:

Proposed Class:

Subclass:

"All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filling is the patent application of

Inventor(s): Tapani RYHANEN, Mikael LIND, Vladimir ERMOLOV, Samuli SILANTO

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to \$ 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in \$ 1.17(l) is filed supplying or changing the name or names of the inventor or inventors."

For (IIIIe):

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A MICROMECHANICAL TUNABLE CAPACITOR AND AN INTEGRATED TUNABLE RESONATOR

CERTIFICATION UNDER 37 C.F.R. § 1.10* (Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 14 February 2001 in an envelope as "Express Mail Post Office to Addressee," malling Label Number <u>FL627425040US</u> dressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

June Adams

or print name of person malling paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.0 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Eech paper or fee filed by "Express Mail" muset have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]-pege 1 of 11)

 Type of 	f App	olicat	lon
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This new application is for a(n)

(check one applicable Item below)

	terroria esta esta menti zeren,
X	Original (nonprovisional)
	Design
	☐ Plant
WARNING	Do not use this transmittal for a completion in the U.S. of an international Application under 35 U.S.C. § 371(c)(4), unless the international Application is being filed as a divisional, continuation or continuation-in-part application.
WARNING	: Do not use this transmittal for the filing of a provisional application.
· 7/	one of the following 3 liems apply, then complete and attach ADDED PAGES FOR NEW APPLICATION PANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION I PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	Divisional.
. 🗆	Continuation.
	Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filling date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filling date as set forth in § 1.53(b) or § 1.53(d) and include the basic filling fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

- NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an international Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following Item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
- WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c), (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-l-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]-page 2 of 11)

holiday within the District of Columbia, any no	inprovisional application claiming benefit of the Saturday, Sunday, or Federal holiday within the
	claims the benefit of prior U.S. applica- DR NEW APPLICATION TRANSMITTAL LICATION(S) CLAIMED.
3. Papers Enclosed	
 A. Required for filling date under 37 C.F.R. § (Design) Application 	1.53(b) (Regular) or 37 C.F.R. § 1.153
18 Pages of specification	•
5 Pages of claims	·
_17 Sheets of drawing	÷
smooth, and non-shiny paper and meet the sta drawings are necessary, they should be made to the corrected original drawing then submitted to	y copy of the drawings should be supplied when submitted to the Office must be on strong, white, indered according to § 1.84. If corrections to the orthe original drawing and a high-quality copy of the Office. Only one copy is required or desired. § 1.84, see Notice of March 9, 1988 (1990 O.G.
NOTE: "Identifying Indica, if provided, should include the inventor's name, docket number (if any), and the nathe Office is unable to match the drawings to the propon the back of each sheet of drawing a minimum dof the page" 37 C.F.R. § 1.84(c)).	me and telephone number of a person to call if er application. This information should be placed
(complete the following,	'(applicable)
 The enclosed drawing(s) are photogrammer PETITION TO ACCEPT PHOTOGRA 1.84(b). 	
☐ formal	
☐ Informal ·	
B. Other Papers Enclosed	•
Pages of declaration and power of attorne	y ·
1 Pages of abstract	
Other	
4. Additional papers enclosed	
Amendment to claims	
 Cancel in this applications claims calculating the filing fee. (At least or retained for filing purposes.) 	before ne original independent claim must be
	ned amendment. (Claims added have wing the highest numbered original
Preliminary Amendment	
☐ Information Disclosure Statement (37 C.	F.R. § 1.98)
☐ Form PTO-1449 (PTO/SB/08A and 08B)	
☐ Citations	·
· (Ne	w Application Transmittal [4-1]—page 3 of 11)

	☐ Declaration of Biological Deposit .
	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
	Authorization of Attomey(s) to Accept and Follow Instructions from Representa- tive
	☐ Special Comments
	☐ Other
	5. Declaration or oath (including power of attorney)
The state of the s	NOTE: A newly executed declaration is not required in a continuation or divisional application provided that the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47, then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).
The Real Court was the Real	NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).
# H	☐ Enclosed
* %=# #	Executed by
	(check all applicable boxes)
	inventor(s).
20 ma 20 ma	legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
THE STATE	 joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
•	☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
	Not Enclosed.
	NOTE: Where the filing is a completion in the U.S. of an international Application or where the completion of the U.S. application contains subject matter in addition to the international Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
	Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).
	(The declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
	(New Application Transmittal [4-1]—page 4 of 11)

6. Invent	orship Statement
WARNING	: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The inve	intorship for all the claims in this application are:
	The same.
	or .
	Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
	is submitted.
	☐ will be submitted.
7. Langu	age ·
An rec	application including a signed oath or declaration may be filed in a language other than English. English translation of the non-English language application and the processing fee of \$130.00 pulsed by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may set by the Office. 37 C.F.R. § 1.52(d).
D3	English
	Non-English .
•	The attached translation includes a statement that the translation is accurate, 37 C.F.R. § 1.52(d).
8. Assign	
	An assignment of the invention to <u>Nokia Mobile Phones Ltd.</u>
	☐ is attached. A separate ☑ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
ſ	will follow.
	n assignment is submitted with a new application, send two separate letters one for the application one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING:	A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

(New Application Transmittal [4-1]—page 5 of 11)

	9.	Ce	rtified	Copy
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Certified copy(les) of application(s)

Country Finland		Appln. 20000339	No.		Filed 16 February 2000
Country		Appln.	No.	· · · · · · · · · · · · · · · · · · ·	Filed
Country		Appin. i	v o.		Filed
from which priority is cl	almed				
X Is (are) attach	ied.				
will follow.					
NOTE: The foreign applica declaration, 37 C.F.	-		claim foi	r priority must i	oe referred to in the oath or
U.S. application or i § 120 is itself entitle PAGES FOR NEW I CLAIMED. 10. Fee Calculation (3	ntemational Applied to priority from APPLICATION TR. 7 C.F.R. § 1.	cation from i a prior foreig ANSMITTAL	vhich thi n applic	s application cla ation, then com	directly relates. If any parent alms benefit under 35 U.S.C. plete Item 18 on the ADDED PAIOR U.S. APPLICATION(S)
A. 🖾 Regular appli	cation		•		
	CL	AIMS AS	FILED		
Number filed	Nu	mber Exti	а	Rate	¹ Basic Fee 37 C.F.R. § 1.16(a) \$ 710.00
Total Claims (37 C.F.R. § 1.16(c)) 42	- 20 =	22	×	\$ 18.00	396.00
Independent Claims (37 C.F.R. § 1.16(b)) 3	- 3 =	0	×	\$ 80.00	. 0
Multiple dependent claim If any (37 C.F.R. § 1.16	* * .		+	\$ 270.00	
☐ Amendment c	ancelling extra	claime le	enclo	eed	
Amendment d					
	-	-			•
NOTE: If the fees for extra cla	ilms are not paid on of the time per	on filling they lod set for n	must be	paid or the clair	ns cancelled by amendment, and Trademark Office in any
•		Calculat	lon		\$_1,106.00
B. Design applica (\$ 320.00 -37		(f)) ·			
	Filing Fee		on		\$
C. ☐ Plant applicable (\$ 490.00-37 (on			,	
	Filling fee	calculation	n		\$

11. Smal	Entity Statement(s)
Ō	Statement(s) that this is a filing by a small entity under 37 C.F.R. § 1.9 and 1.27 is (are) attached.
WAЯNING.	"Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuetion, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application cialming benefit under 35 U.S.C. § 119(e), 120, 121, or 365(c) of a prior application, or a relissue application may rely on a statement filed in the prior application or in the patent or includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent or includes a copy of the statement in the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).
WARNING:	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 6th ed., rev. 2, July 1996 (emphasis added).
	(complete the following, if applicable)
	Status as a small entity was claimed in prior application
	/, flied on, from which benefit
•	Is being claimed for this application under:
	35 U.S.C. § ☐ 119(e), ☐ 120.
	☐ 120, ☐ 121, ☐ 365(c),
	•
	and which status as a small entity is still proper and desired.
	A copy of the statement in the prior application is included.
	Filing Fee Calculation (50% of A, B or C above)
	\$
870	excess of the full fee paid will be refunded if small entity status is established and a refund request filed within 2 months of the date of timely payment of a full fee. The two-month period is not indable under § 1,136, 37 C.F.R. § 1,28(a).
12. Reque	st for international-Type Search (37 C.F.R. § 1.104(d))
	(complete, if applicable)
	lease prepare an international-type search report for this application at the time

(New Application Transmittal [4-1]—page 7 of 11)

14.

		•	
13. F	өө Рау	ment Being Made at This Time	
		t Enclosed	
		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. subsequently.)	§ 1.16(e) can be paid
1	DI En	closed	÷
	DN	Filing fee	\$
*	Ø	Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(1))	`\$
		For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$
		Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	ı\$
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
NOTE:	failing to 37 C.F.I either th	P. § 1.21(f) establishes a fee for processing and retaining any apportunition of the application pursuant to 37 C.F.R. § 1.53(f) and the sign of 1.78(a)(1), indicate that in order to obtain the benefit basic filing fee must be paid, or the processing and retention year from notification under § 53(f).	his, as well as the changes to efft of a prior U.S. application, fee of § 1.21(I) must be paid,
		Total fees enclosed	\$ 1,106.00
14. M	ethod o	of Payment of Fees	
K	2 Che	ck in the amount of \$1,106.00	•
C] Cha	rge Account No.	. In the amount of
	A du	iplicate of this transmittal is attached.	
NOTE:	Fees sho § 1.22(b)	ould be Itemized in such a manner that it is clear for which purpo).	se the fees are pald, 37 C.F.R.

15. Authorization to Charge Additional Fees

WARNING: If no loes are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

- The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 16-1350 :
 - (filling fees) 37 C.F.R. § 1.16(a), (f) or (g) (filling fees)
 - 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)
- NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.
 - 37 C.F.R. § 1.16(e) (surcharge for filling the basic filling fee and/or declaration on a date later than the filling date of the application)
 - ☑ 37 C.F.R. § 1.17(a)(1)–(5) (extension fees pursuant to § 1.136(a)).
 - XX 37 C.F.R. § 1.17 (application processing fees)
- NOTE: ". ... A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to change all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).
 - 37 C.F.R. § 1.18 (Issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))
- NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).
- NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application... prior to paying, or at the time of paying,... the issue fee..." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]—page 9 of 11)

16. Instructions as to Overpayment

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

- Credit Account No. 16-1350
- □ Refund

SEND ALL CORRESPONDENCE TO: Clarence A. Green, Reg. No.: 24,622 PERMAN & GREEN, LLP 425 Post Road Fairfield, Connecticut 06430

Reg. No. 24,622

Tel. No. (203) 259-1800

Customer No. 2512

SIGNATURE OF PRACTITIONER

Clarence A. Green

(type or print name of attorney)

PERMAN & GREEN, LLP

P.O. Address

425 Post Road, Fairfield, Connecticut 06430

(New Application Transmittal [4-1]—page 10 of 11)

		· ·
	Incor	poration by reference of added pages
,	p st	theck the following item if the application in this transmittal claims the benefit of rior U.S. application(s) (including an international application entering the U.S. age as a continuation, divisional or C-I-P application) and complete and attach be ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
	y*	Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application" Number of pages added
(X)	State	ment Where No Further Pages Added
		no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
	(X)	This transmittal ends with this page.

(New Application Transmittal [4-1]-page 11 of 11)